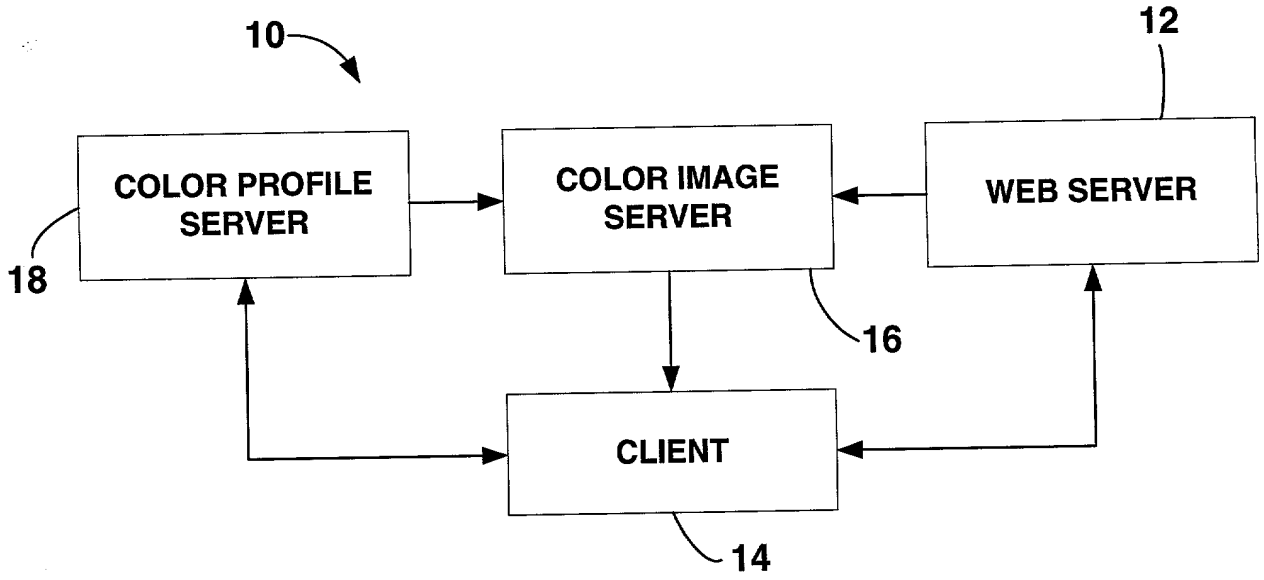
10
12
COLOR PROFILE SERVER
COLOR IMAGE SERVER
WEB SERVER
18
16
CLIENT
14

FIG. 1

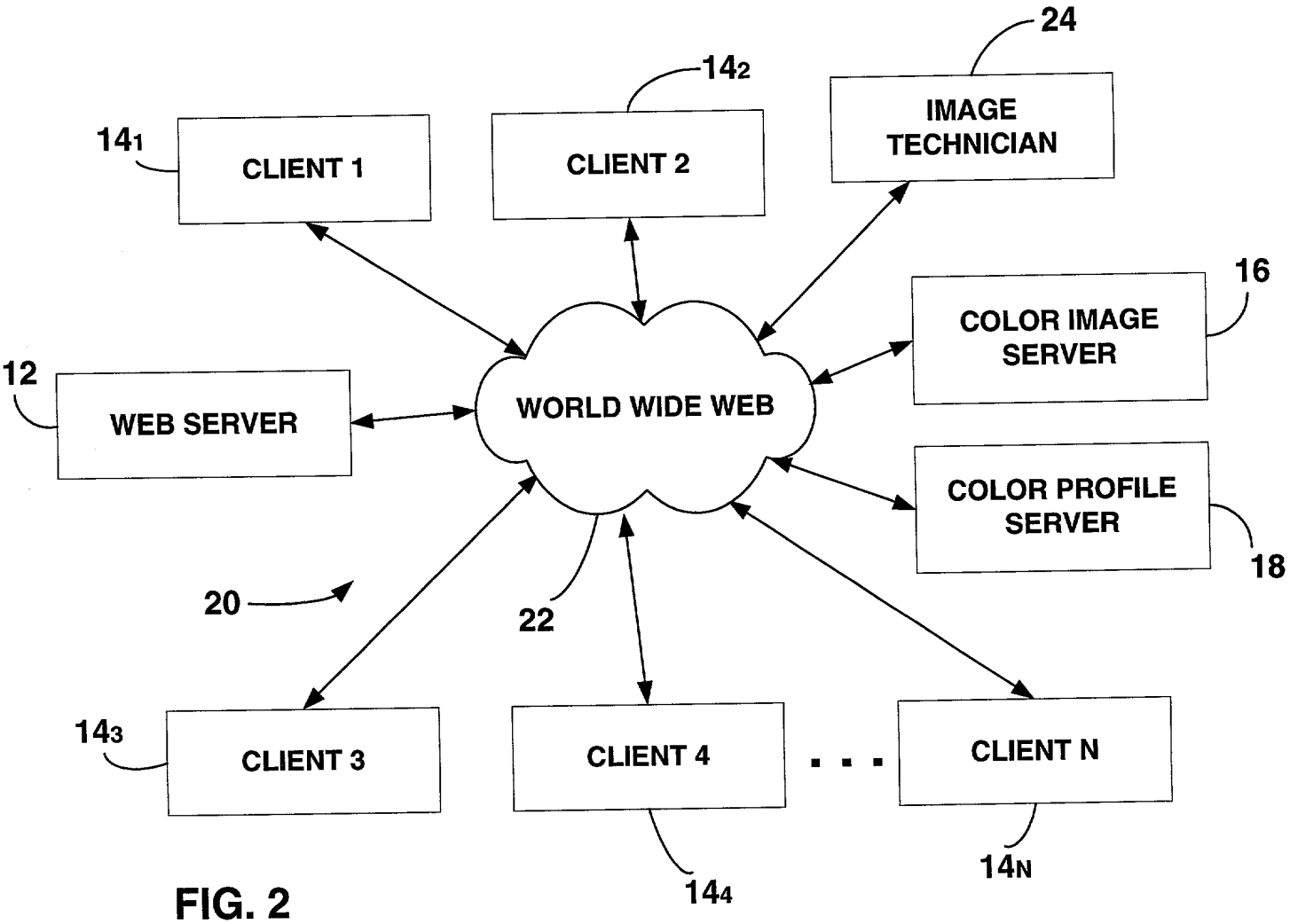
24
14_2
14_1
CLIENT 1
CLIENT 2
IMAGE TECHNICIAN
16
COLOR IMAGE SERVER
12
WEB SERVER
WORLD WIDE WEB
COLOR PROFILE SERVER
18
20
22
14_3
CLIENT 3
CLIENT 4
CLIENT N
14_4
14_N

FIG. 2

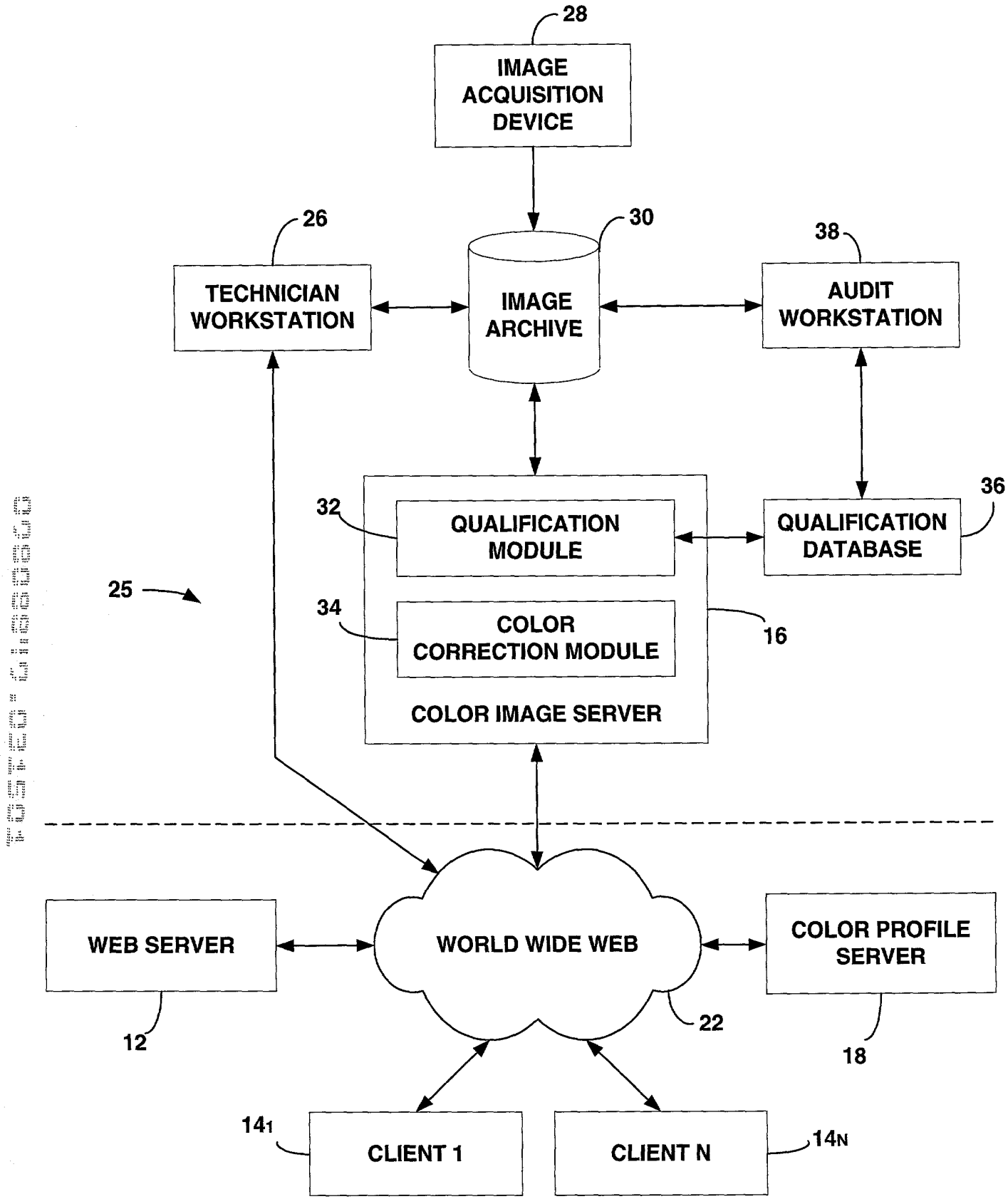
28
IMAGE ACQUISITION DEVICE
26
TECHNICIAN WORKSTATION
30
IMAGE ARCHIVE
38
AUDIT WORKSTATION
32
QUALIFICATION MODULE
36
QUALIFICATION DATABASE
25
34
COLOR CORRECTION MODULE
16
COLOR IMAGE SERVER
WEB SERVER
WORLD WIDE WEB
COLOR PROFILE SERVER
12
22
18
14₁
CLIENT 1
CLIENT N
14N

FIG. 3

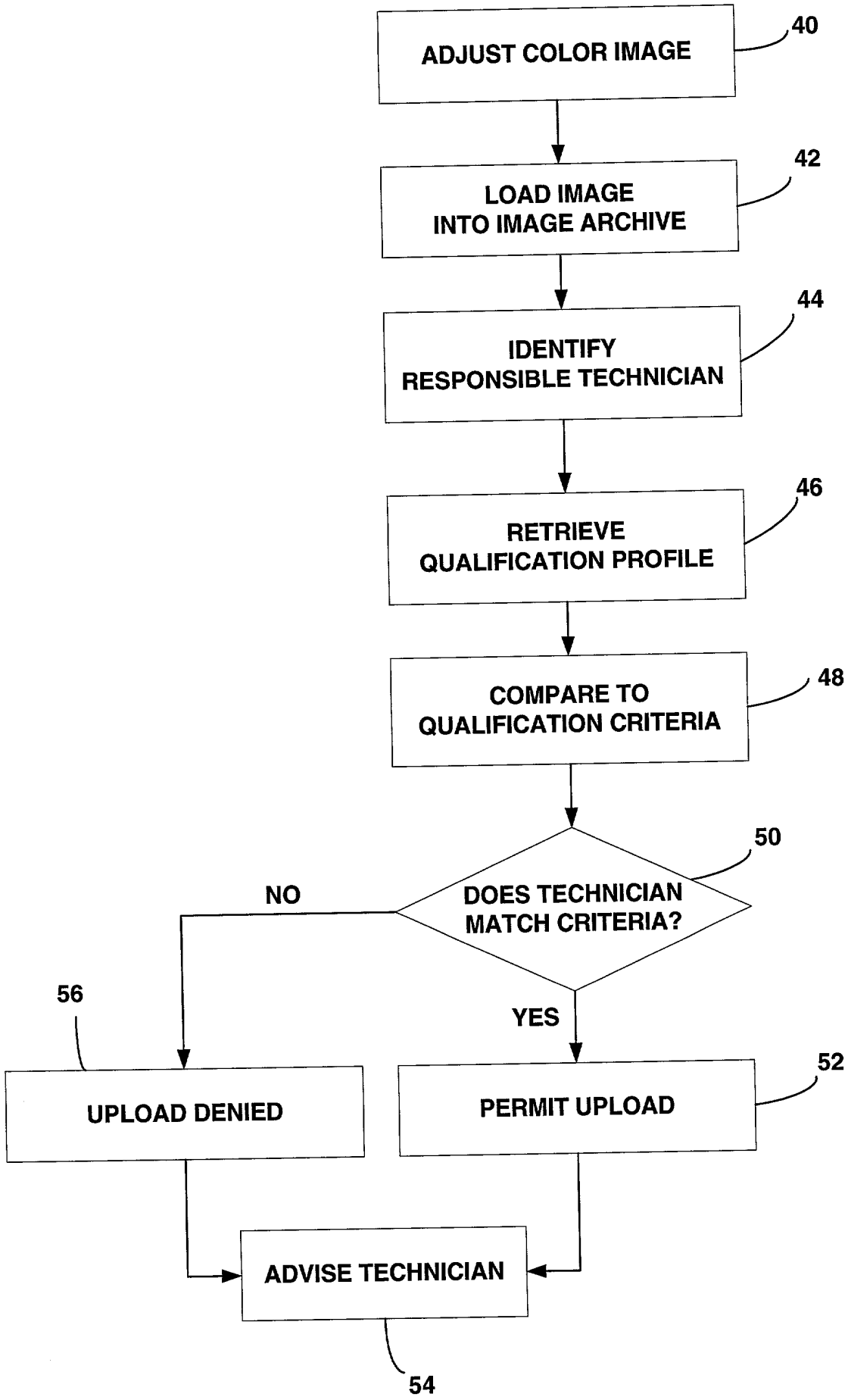
ADJUST COLOR IMAGE
40
LOAD IMAGE INTO IMAGE ARCHIVE
42
IDENTIFY RESPONSIBLE TECHNICIAN
44
RETRIEVE QUALIFICATION PROFILE
46
COMPARE TO QUALIFICATION CRITERIA
48
DOES TECHNICIAN MATCH CRITERIA?
50
NO
YES
56
UPLOAD DENIED
PERMIT UPLOAD
52
ADVISE TECHNICIAN
54

FIG. 4

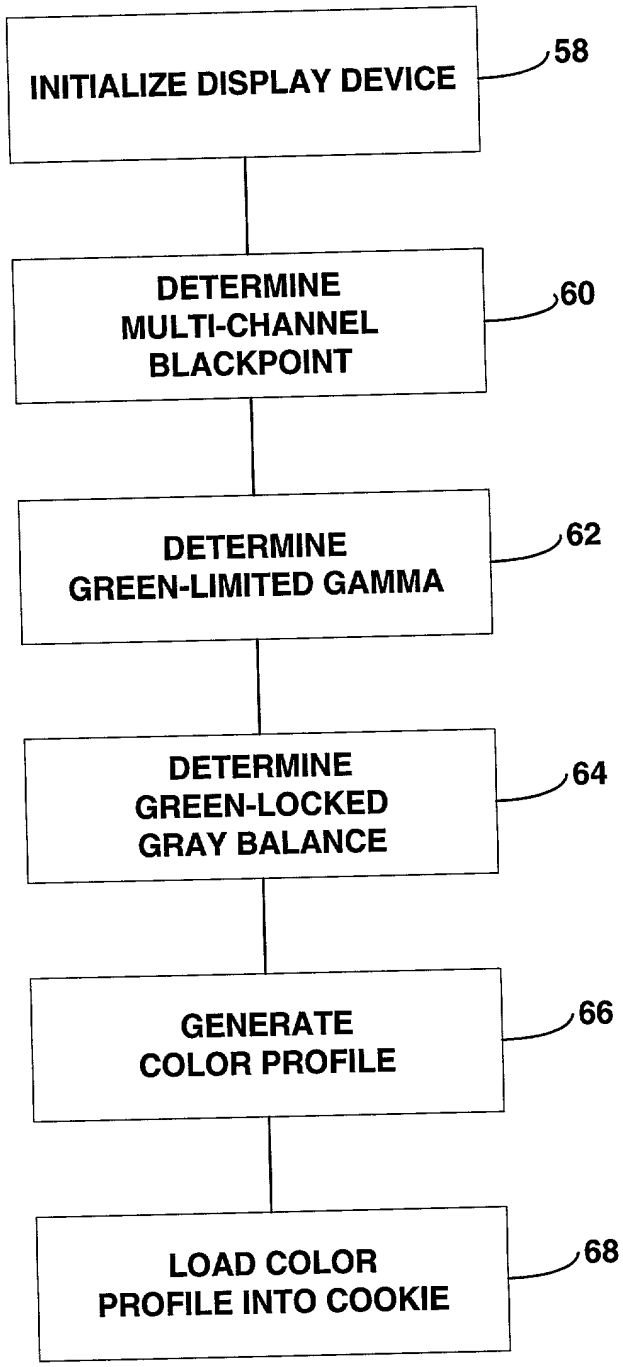
INITIALIZE DISPLAY DEVICE
58
DETERMINE MULTI-CHANNEL BLACKPOINT
60
DETERMINE GREEN-LIMITED GAMMA
62
DETERMINE GREEN-LOCKED GRAY BALANCE
64
GENERATE COLOR PROFILE
66
LOAD COLOR PROFILE INTO COOKIE
68

FIG. 5

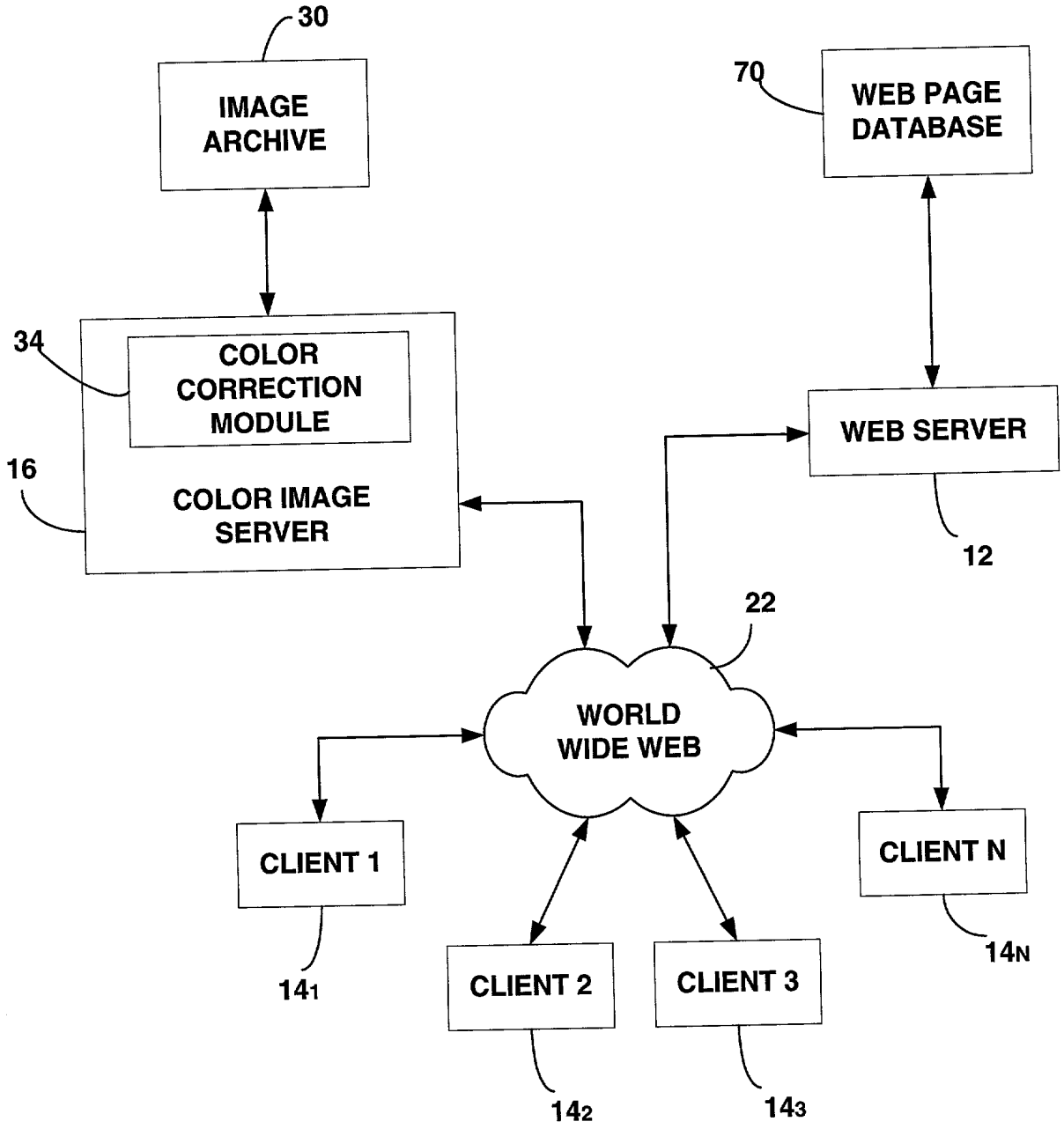
30
IMAGE ARCHIVE
70
WEB PAGE DATABASE
34
COLOR CORRECTION MODULE
16
COLOR IMAGE SERVER
WEB SERVER
12
22
WORLD WIDE WEB
CLIENT 1
141
CLIENT 2
142
CLIENT 3
143
CLIENT N
14N

FIG. 6

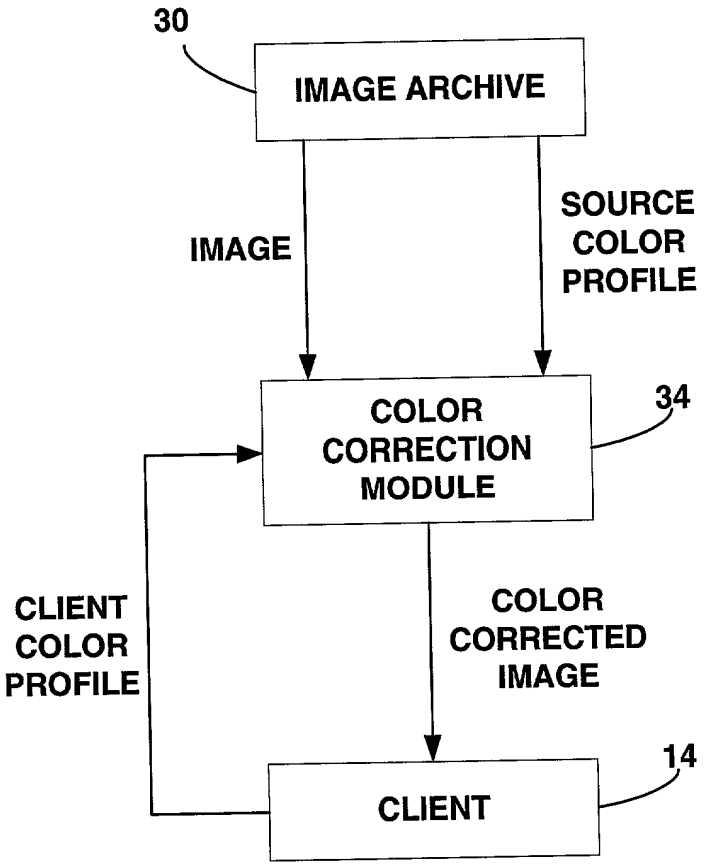
30
IMAGE ARCHIVE
IMAGE
SOURCE COLOR PROFILE
COLOR CORRECTION MODULE
34
CLIENT COLOR PROFILE
COLOR CORRECTED IMAGE
14
CLIENT

FIG. 7

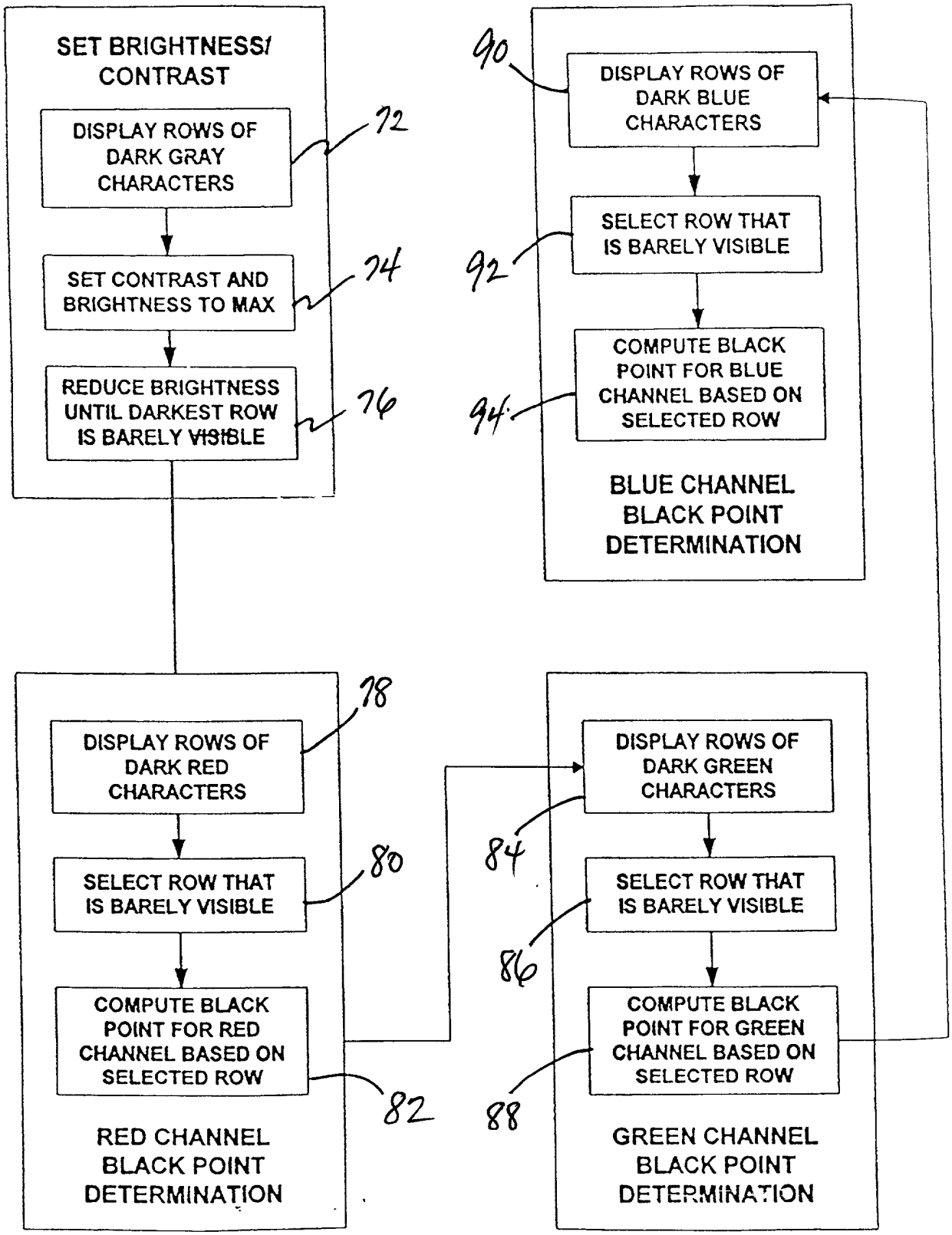
SET BRIGHTNESS/ CONTRAST
DISPLAY ROWS OF DARK GRAY CHARACTERS
72
SET CONTRAST AND BRIGHTNESS TO MAX
74
REDUCE BRIGHTNESS UNTIL DARKEST ROW IS BARELY VISIBLE
76
DISPLAY ROWS OF DARK RED CHARACTERS
78
SELECT ROW THAT IS BARELY VISIBLE
80
COMPUTE BLACK POINT FOR RED CHANNEL BASED ON SELECTED ROW
82
RED CHANNEL BLACK POINT DETERMINATION
90
DISPLAY ROWS OF DARK BLUE CHARACTERS
92
SELECT ROW THAT IS BARELY VISIBLE
94
COMPUTE BLACK POINT FOR BLUE CHANNEL BASED ON SELECTED ROW
BLUE CHANNEL BLACK POINT DETERMINATION
DISPLAY ROWS OF DARK GREEN CHARACTERS
84
SELECT ROW THAT IS BARELY VISIBLE
86
COMPUTE BLACK POINT FOR GREEN CHANNEL BASED ON SELECTED ROW
88
GREEN CHANNEL BLACK POINT DETERMINATION

FIG. 8

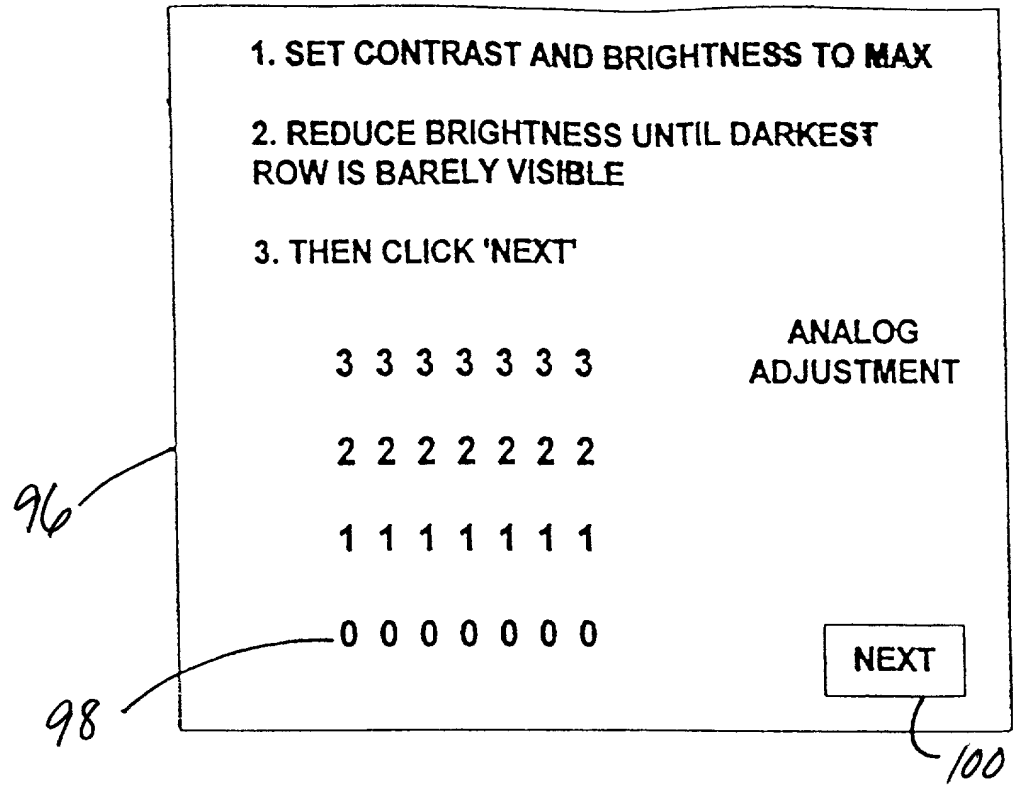
1. SET CONTRAST AND BRIGHTNESS TO MAX
2. REDUCE BRIGHTNESS UNTIL DARKEST ROW IS BARELY VISIBLE
3. THEN CLICK 'NEXT'
3 3 3 3 3 3 3
2 2 2 2 2 2 2
1 1 1 1 1 1 1
0 0 0 0 0 0 0
ANALOG ADJUSTMENT
NEXT
96
98
100

FIG. 9

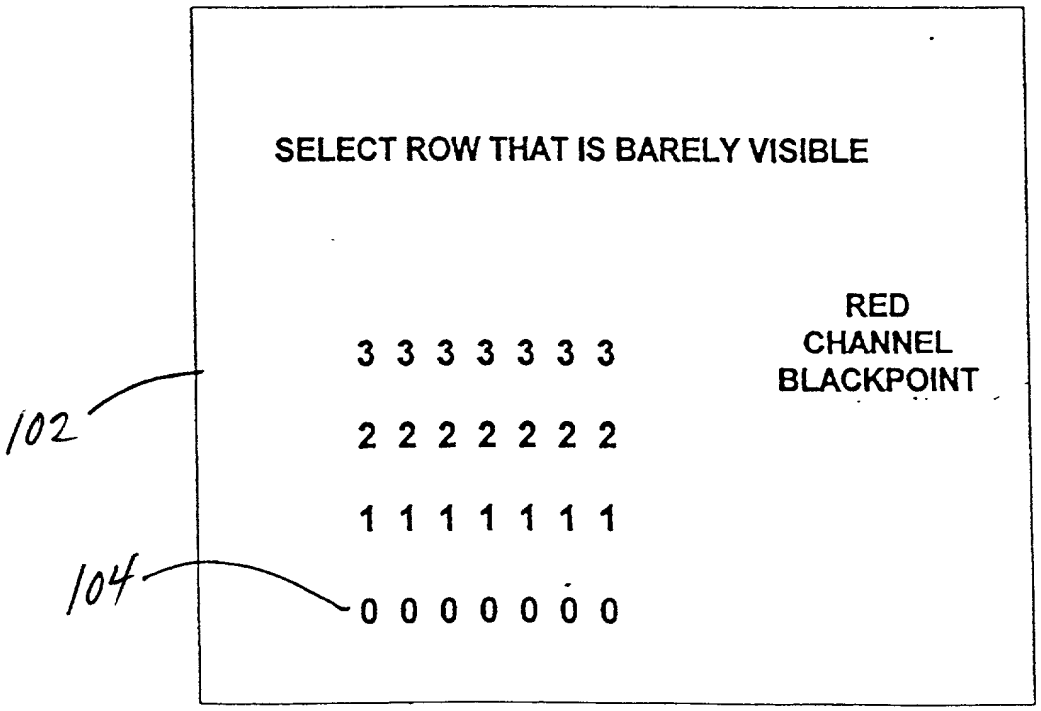
SELECT ROW THAT IS BARELY VISIBLE
3 3 3 3 3 3 3
2 2 2 2 2 2 2
1 1 1 1 1 1 1
0 0 0 0 0 0 0
RED CHANNEL BLACKPOINT
102
104

FIG. 10

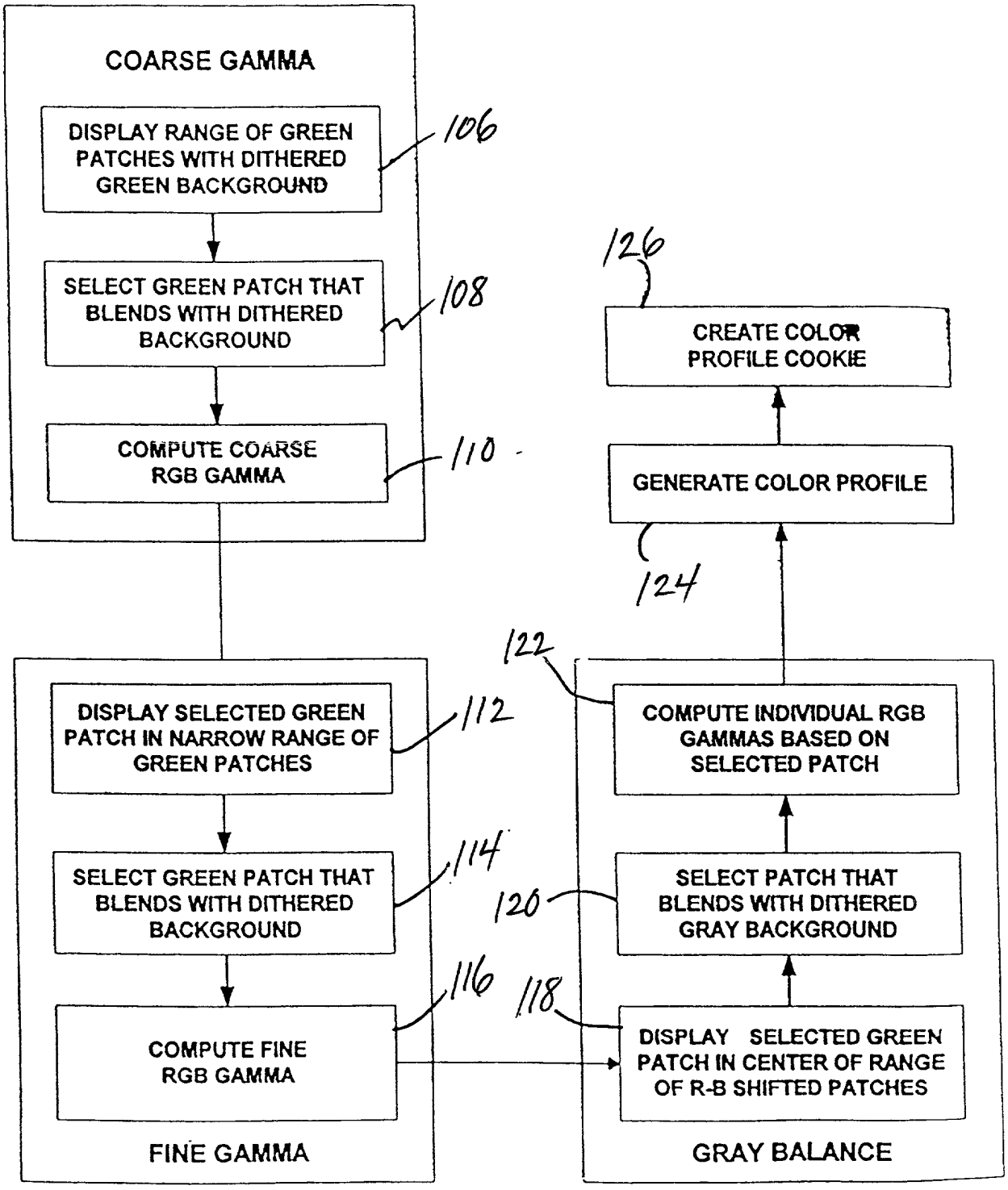
COARSE GAMMA
DISPLAY RANGE OF GREEN PATCHES WITH DITHERED GREEN BACKGROUND
106
SELECT GREEN PATCH THAT BLENDS WITH DITHERED BACKGROUND
108
COMPUTE COARSE RGB GAMMA
110
DISPLAY SELECTED GREEN PATCH IN NARROW RANGE OF GREEN PATCHES
112
SELECT GREEN PATCH THAT BLENDS WITH DITHERED BACKGROUND
114
COMPUTE FINE RGB GAMMA
116
FINE GAMMA
126
CREATE COLOR PROFILE COOKIE
GENERATE COLOR PROFILE
124
122
COMPUTE INDIVIDUAL RGB GAMMAS BASED ON SELECTED PATCH
SELECT PATCH THAT BLENDS WITH DITHERED GRAY BACKGROUND
120
118
DISPLAY SELECTED GREEN PATCH IN CENTER OF RANGE OF R-B SHIFTED PATCHES
GRAY BALANCE

FIG. 11

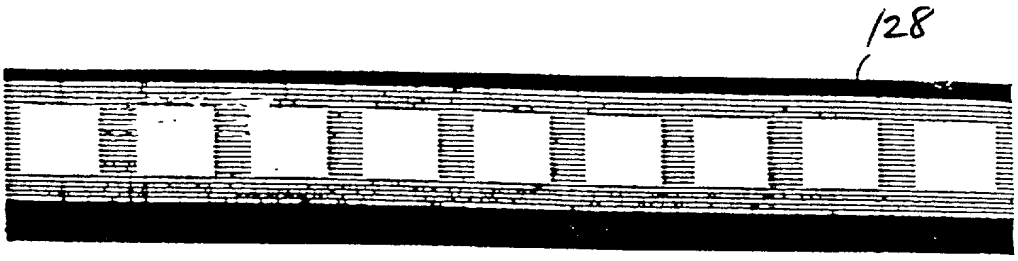

Fig. 12

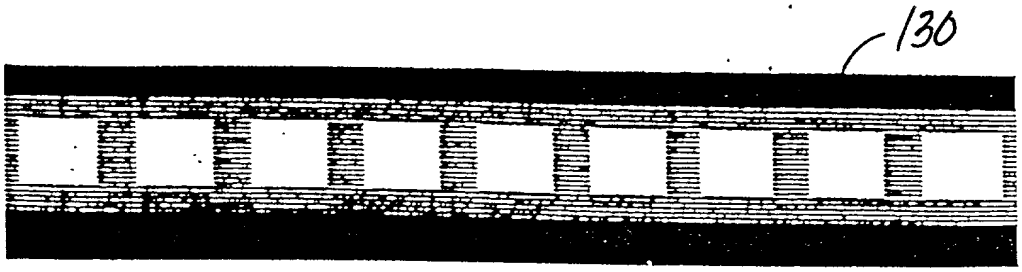

Fig. 13

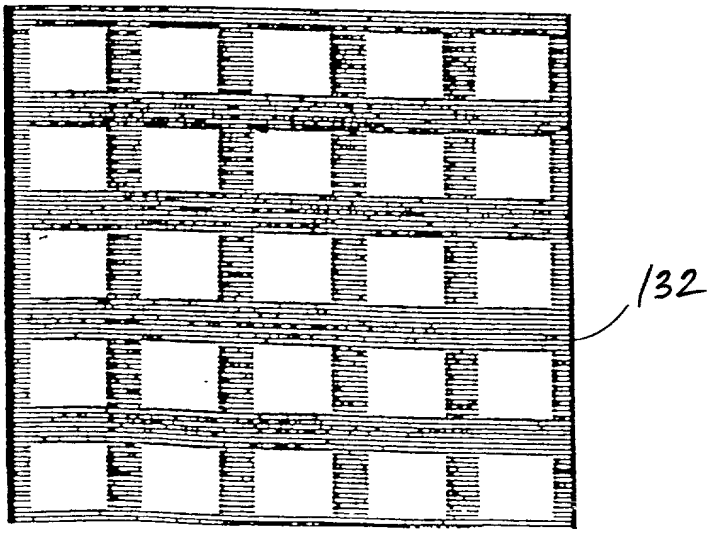

FIG. 14

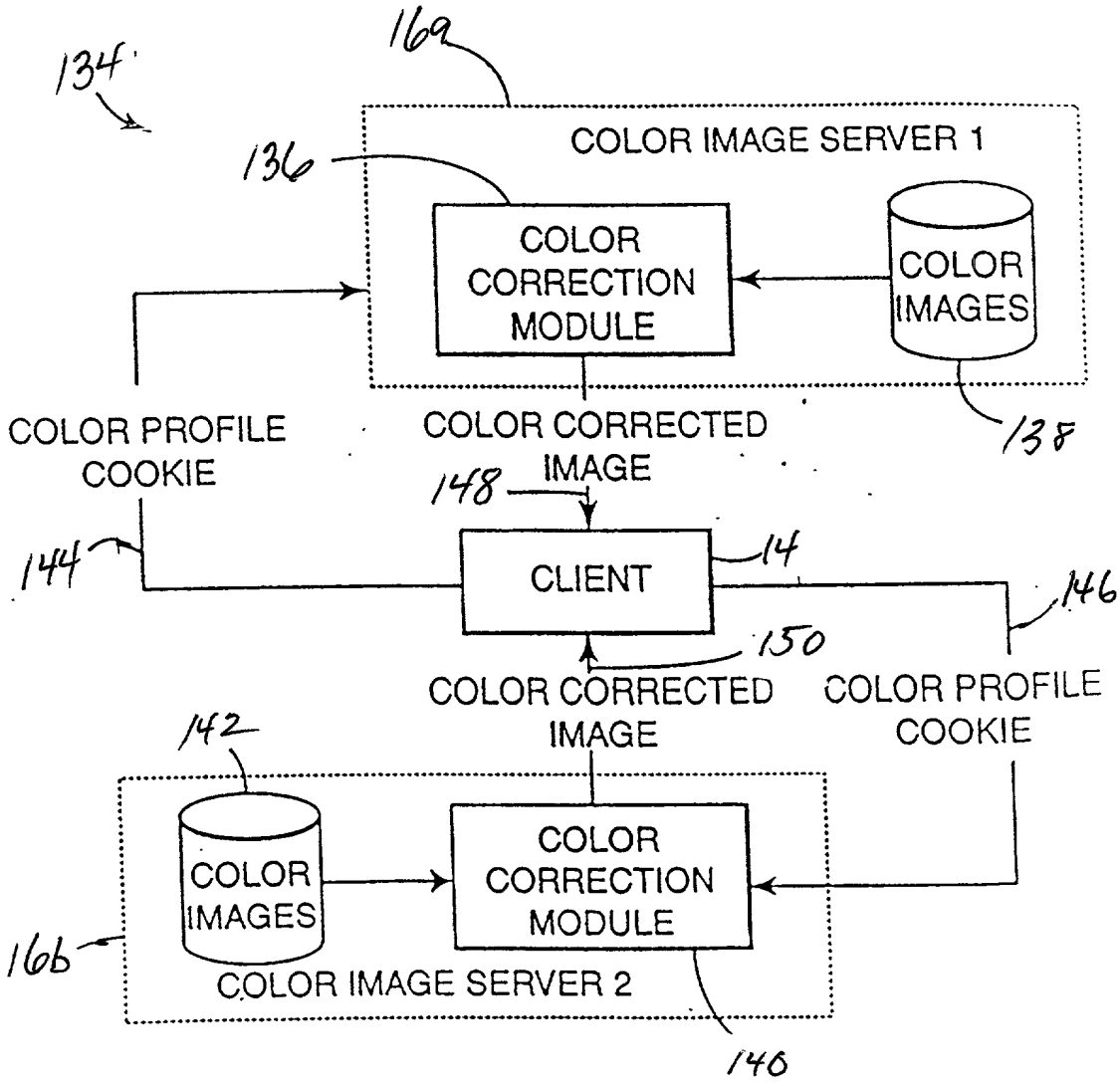
134
169
COLOR IMAGE SERVER 1
136
COLOR CORRECTION MODULE
COLOR IMAGES
138
COLOR PROFILE COOKIE
COLOR CORRECTED IMAGE
148
144
CLIENT
14
146
150
COLOR CORRECTED IMAGE
COLOR PROFILE COOKIE
142
COLOR IMAGES
COLOR CORRECTION MODULE
166
COLOR IMAGE SERVER 2
140

Fig. 15